

Heavy-duty tubing PAN-R

FESTO



Characteristics

At a glance

Powerful performance at pressure ranges up to 20 bar, e.g. in applications using the pressure booster DPA

- Polyamide
- For applications with high pressure ranges
- Highly resistant to microbes
- Operating medium: compressed air, vacuum

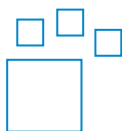
Additional documents

[Link](#) [pan-r](#)



The additional document TUBING-ADD contains further information on application details, such as tubing/fitting combinations, installation instructions and measurement procedures.

Ordering data - modular system



Configurable product

This product and all its product options can be ordered online via the configurator.

Engineering tools

[Link](#) [engineering tools](#)



Save time with engineering tools: Smart engineering for the optimal solution. Our goal is to increase your productivity. Our engineering tools play an integral part in achieving this goal. They help you size your system correctly, tap into unimagined productivity reserves and generate additional productivity along the entire value chain. In every phase of your project, from the initial contact to the modernisation of your machine, you will come across a number of different tools that will be of use to you.

- Flow calculation: Determine the nominal flow rate by entering parameters such as input pressure, output pressure, tube length and internal diameter (www.festo.com/x/flowrate-calculation).
- Media resistance: Evaluate the resistance of various types of materials and tubing from Festo to different chemicals and media (www.festo.com/x/media-resistance).

Diagrams

[Link](#) [pan-r](#)



The diagrams shown in this document are also available online. These can be used to display precise values.

Alternative material characteristic

[R] Sturdy

For applications with high pressure ranges

Pipe/tubing O.D. x wall thickness

For standard O.D. tubing, the outside diameter of the tube and the wall thickness are given as the tube size.

Packaging unit [m]

Standard: 50 m

Type code

001	Series	
PAN	Standard O.D. tubing	
002	Alternative material characteristic	
R	Sturdy	

003	Pipe/tubing O.D. x wall thickness	
4x0,75	4x0.75 mm	
6x1,1	6x1.1 mm	
8x1,5	8x1.5 mm	
10x1,9	10x1.9 mm	
12x2,2	12x2.2 mm	
16x3	16x3 mm	
22x2	22x2 mm	
28x2,5	28x2.5 mm	

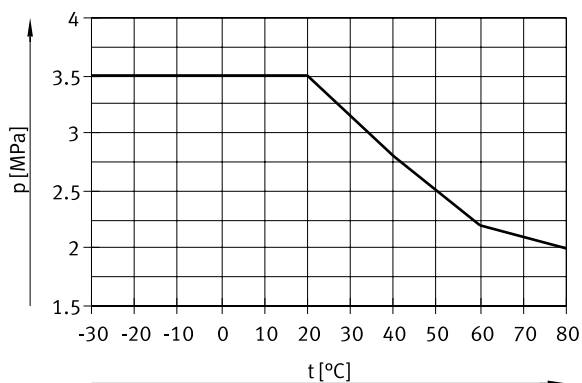
004	Colour	
SI	Silver	
SW	Black	

Datasheet

Operating and ambient conditions – O.D. 4 ... 16 mm

Outside diameter	4 mm	6 mm	10 mm	12 mm
Inside diameter	2.5 mm	3.8 mm	6.2 mm	7.6 mm
Pneumatic connection	For push-in connector O.D. 4 mm	For push-in connector O.D. 6 mm	For push-in connector O.D. 10 mm	For push-in connector outside diameter of 12 mm
Flow-relevant bending radius	16 mm	21 mm	44 mm	46 mm
Min. bending radius	10 mm	16 mm	25 mm	30 mm
Temperature-dependent operating pressure	-0.095 ... 3.5 MPa			
Temperature-dependent operating pressure	-0.95 ... 35 bar			
Temperature-dependent operating pressure	-13.775 ... 507.5 psi			
Operating medium	Compressed air to ISO 8573-1:2010 [7:-]			
Ambient temperature	-30 ... 80°C			
Approval	German Technical Control Board (TÜV)			
Certificate issuing authority	B 013277 0527 00			
Tubing characteristics	Suitable for energy chains			

Operating pressure p as a function of temperature t

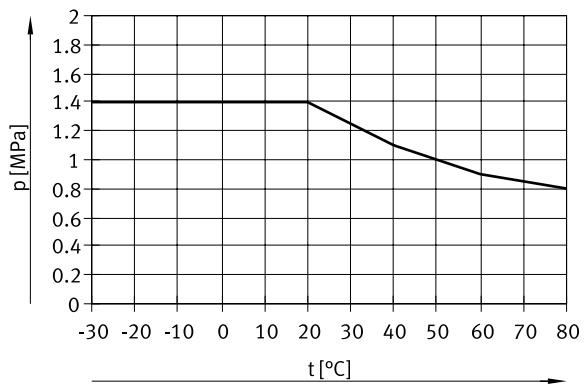


Operating and environmental conditions – O.D. 22 ... 28 mm

Outside diameter	22	28
Inside diameter	18 mm	23 mm
Pneumatic connection	For push-in connector O.D. 22 mm	For push-in connector O.D. 28 mm
Flow-relevant bending radius	350 mm	
Temperature-dependent operating pressure	-0.095 ... 1.4 MPa	
Temperature-dependent operating pressure	-0.95 ... 14 bar	
Temperature-dependent operating pressure	-13.775 ... 203 psi	
Operating pressure complete temperature range	-0.95 ... 8 bar	
Operating pressure complete temperature range	-13.775 ... 116 psi	
Operating pressure complete temperature range	-0.095 ... 0.8 MPa	
Operating medium	Compressed air to ISO 8573-1:2010 [7:-]	
Ambient temperature	-30 ... 80°C	

Datasheet

Operating pressure p as a function of temperature t



Materials

Shore hardness	D 62 +/-3
Material tubing	TPE-A
Note on materials	RoHS compliant
LABS (PWIS) conformity	VDMA24364-B2-L

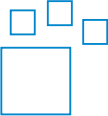
Ordering data

Ordering data – Outer-Ø 4 ... 16 mm						
	Outside diameter	Packaging unit [m] ¹⁾	Product weight according to length	Colour	Part no.	Type
	4 mm	50 m	0.008 kg/m	Silver	541674	PAN-R-4X0,75-SI
	6 mm		0.017 kg/m		541675	PAN-R-6X1,1-SI
	10 mm	Standard	0.05 kg/m		541677	PAN-R-10X1,9-SI
	12 mm		0.07 kg/m		541678	PAN-R-12X2,2-SI

1) Standard: 50 m

Ordering data – O.D. 22 ... 28 mm						
	Outside diameter	Packaging unit [m] ¹⁾	Product weight according to length	Colour	Part no.	Type
	22 mm	50 m	0.131 kg/m	Black	8036207	PAN-R-22X2-SW
	28 mm		0.207 kg/m		8036208	PAN-R-28X2,5-SW

1) Standard: 50 m

Ordering information – Modular product system			
	Short type code	Part no.	Type
	PAN, PAN-ME, PAN-R	553610	PAN